

Report to: Utah Public Service Commission

Electric Service Reliability - Major Event Report UT-10-1

Event Date(s): April 27-28, 2010
Date Submitted: June 7, 2010
Primary Affected Locations: Salt Lake City, Smithfield, Park City,
American Fork, Jordan Valley
Exclude from Performance Reports: Yes
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Event Description:

Beginning in the late afternoon on April 27, 2010, a spring storm in Utah caused significant outages to Rocky Mountain Power customers. Sustained wind speeds of 40 mph and peak gusts of 53 mph were recorded, sending trees and limbs into lines and branches into substation buswork. In some areas, strong winds resulted in poles that were blown over. In other areas, wind combined with rain or light snow causing pole fires. High winds continued to blow throughout the evening and the following day. At a local level, 7,000 customers were impacted when storm-blown vegetation and debris encroached into East Millcreek substation. It resulted in an outage that impacted the entire substation.

In total throughout the state, sustained interruptions affected 113 substations and 152 circuits. The longest interruption was on Millville #12 circuit in the Smithfield operating area, affecting 2 customers for 1,237 minutes (20.6 hours) until a service line was repaired. The unweighted average stage duration of all sustained interruptions statewide was 250 minutes, the median duration was 140 minutes and the mode duration 156 minutes.

Total Customer Minutes Lost = 5,800,602
Total Sustained Incidents = 245
Total Sustained Customer Interruptions = 48,064
State SAIDI = 7.08
State SAIFI = 0.06

Restoration:

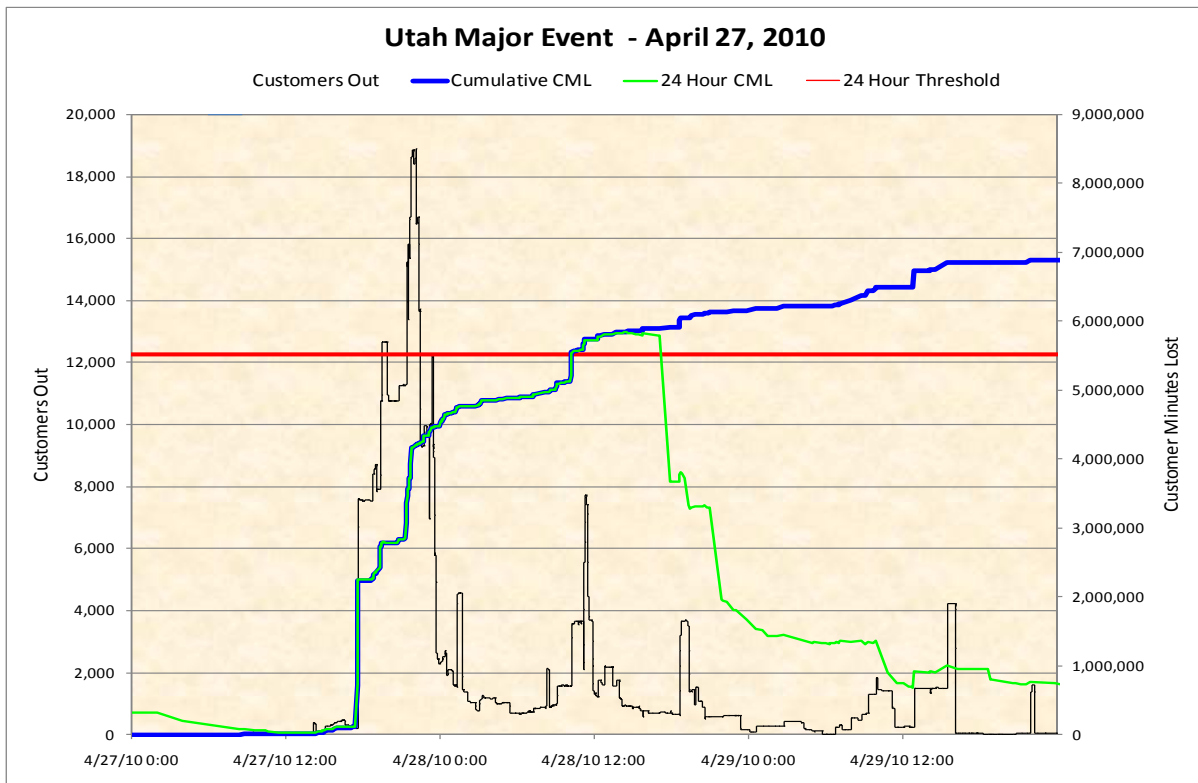
Restoration at East Millcreek substation resulted in prolonged outage duration. The substation jumpers were damaged by the storm-driven vegetation; these repairs were required prior to reenergizing the substation and circuits. Restoration efforts were directed toward repairing trunk lines first then prioritizing and repairing tap lines. Statewide, 77% of affected customers were restored within 3 hours; however, in SLC Metro, only 18% of affected customers were restored within 3 hours. The Wasatch Restoration Center (WRC), which handles all the interruptions in the Salt Lake Valley, requested assistance from other operating areas; these resources were supplied until the bulk of the outages were restored and were able to be managed by WRC crews.

Damages:

Facilities replacements include 6,000 line feet of conductor, 18 distribution poles (10 in Smithfield), 8 transmission poles, 7 transformers, 34 cutouts and 25 cross-arms (15 in Smithfield).

Restoration Resources Utilized in Primary Locations:

Troubleman/assessors	22
Internal (local) crewmembers	34
Borrowed company crew	21
External (contract) crewmembers	12



Estimated Major Event Cost:

Expense \$300,000 Capital \$200,000 TOTAL \$500,000

SAIDI, SAIFI, MAIFI Report: (Attached)

Major Event Threshold:

Rocky Mountain Power is requesting designation of this storm and its consequences to be classified as a “Major Event” for exclusion from network performance reporting. This major event exceeded the company’s current Utah threshold for customer minutes lost in a 24-hour period (pursuant filed Advice/Approval Letters 04-13/05-13 adopting IEEE P1366 major event methodology effective the company’s fiscal year 2006).